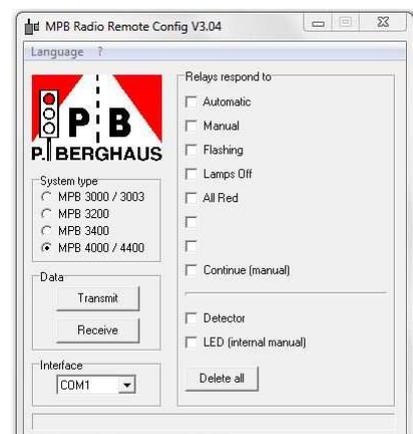


Manual

Radio Remote Control

for mobile traffic light systems type MPB 3xxx, MPB 4xxx
with optional active LED feedback



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1. General

The radio remote control unit can be used for remote control of our mobile signal systems in the MPB 3xxx or MPB 4xxx series.

The radio remote control has visual and acoustic feedback.

Every time the user performs a function, this tells him that the command has arrived at the traffic light receiver.

The radio remote control units are configured specially for the different traffic light series.

The radio remote control for traffic light type MPB 4400 differs from the radio remote control for type MPB 3200; the units are **not** interchangeable.

Only one transmitter/receiver pair is needed for each traffic light system.

The individual traffic light signal heads are connected as usual by radio or cable.

To operate at the traffic light system, any signal head must be equipped with a socket for the external hand-held unit under the green/control chamber.

Article numbers, installation of the external hand-held unit

- MPB 3200 - PB3520
- MPB 3400 - PB3560

Article numbers, installation of the external hand-held unit with active feedback:

- MPB 3200 - PB3520R
- MPB 3400 - PB3560R
- MPB 4400 - MP4058

Note:

Using a PC, it is possible to program a relay output in the radio receiver to operate other functions.

2. Receiver

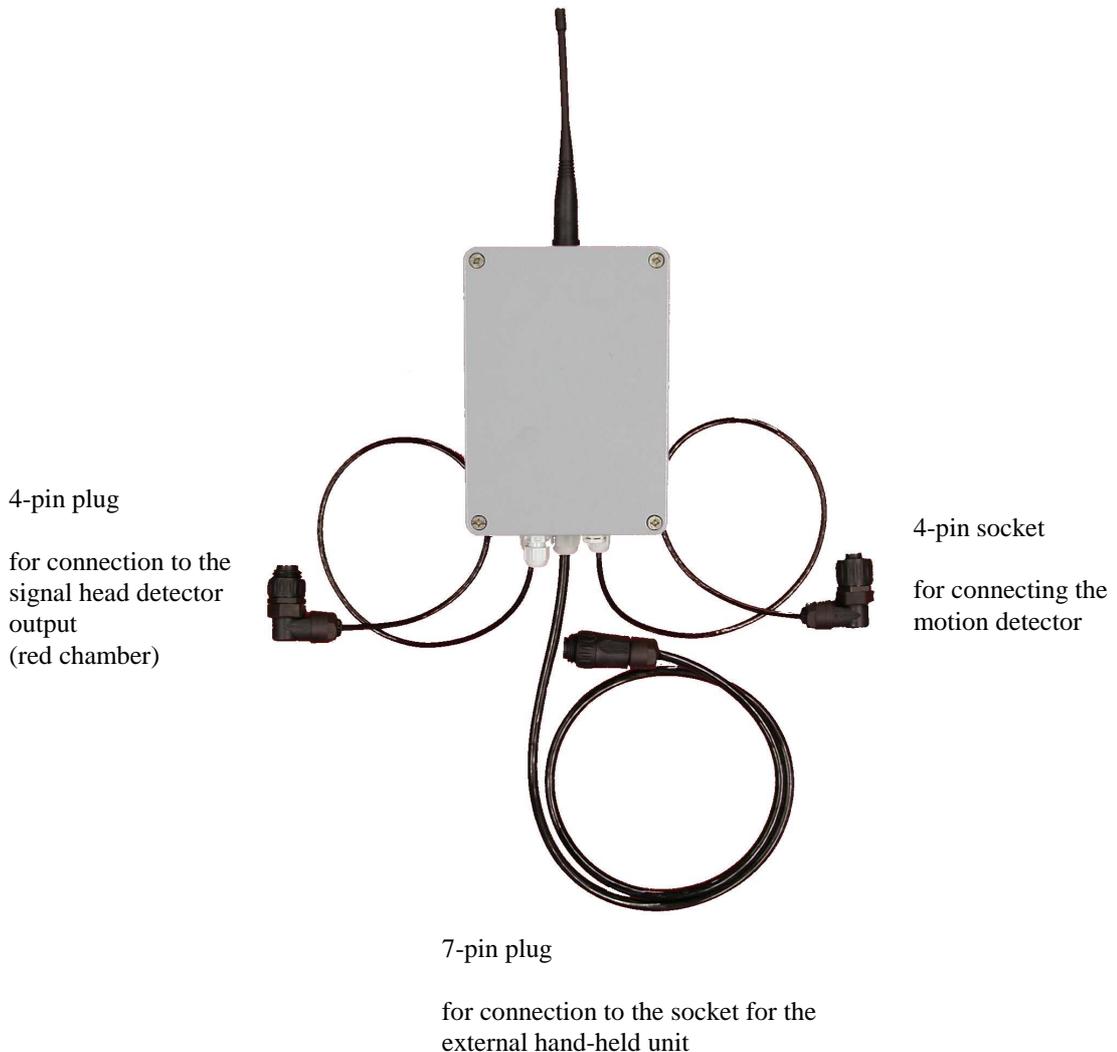
2.1 Connections

The receiver with its bracket slides onto the mounting tube at the rear of the traffic light and is fastened with the grub screw.

In signal system type MPB 4000 / 4400, the internal manual control switch must be set to "**external**"!
Once the receiver has been connected as described above, it is ready for normal remote control without further ado.

Note:

The receivers for the signal system types look the same but differ in terms of their electrics. It is advisable to clearly mark each particular system if you use both versions.



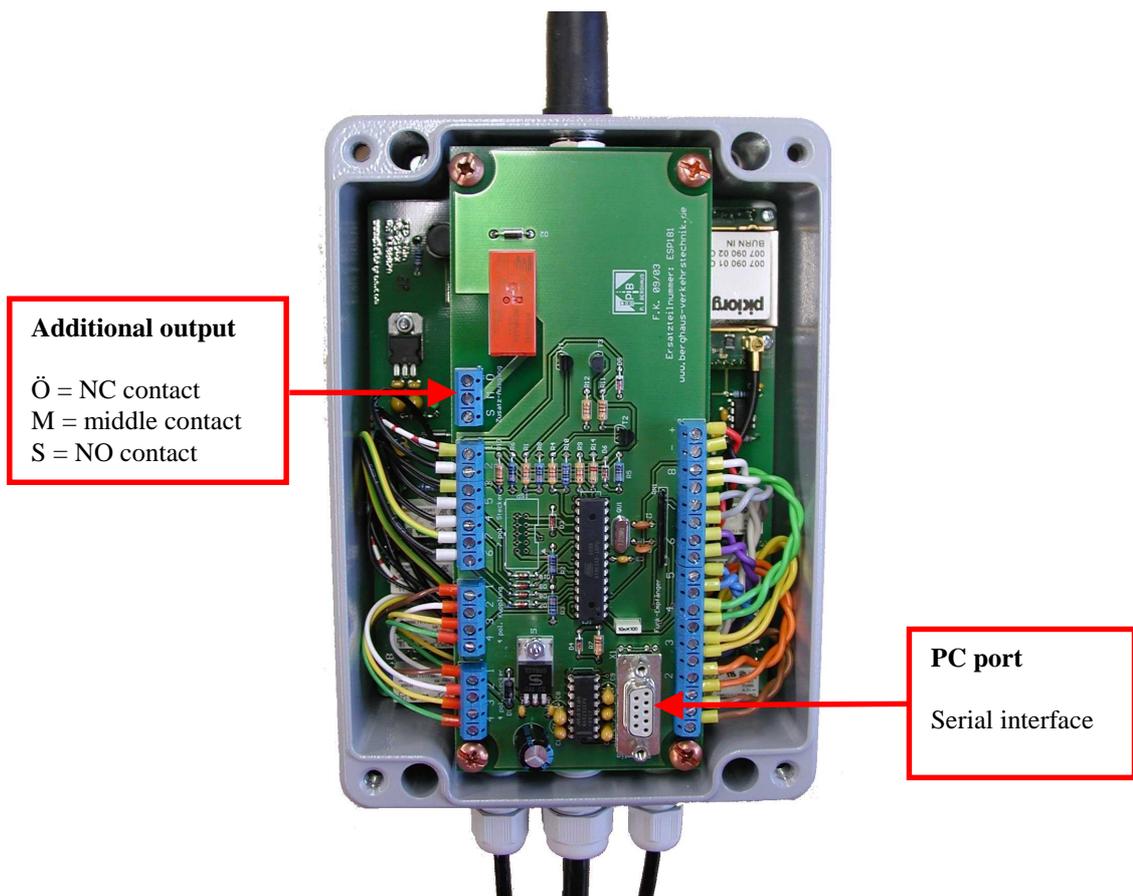
2.2 Additional output

The additional output (potential-free relay contact) can be allocated to the receiver functions. The relay responds immediately on selecting the allocated function on the hand-held unit.

Note:

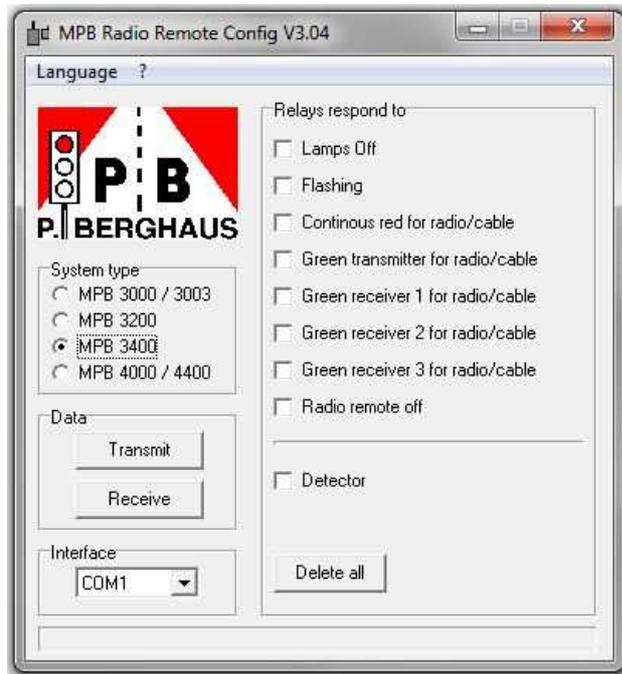
Multiple selection is possible.

2.2.1 Connections



2.2.2 Configuration by PC

The unit is connected to the PC with a normal 9-pin extension lead (1:1, plug/socket). The receiver also has to be supplied with 12 V DC (detector input of a traffic light).



2.2.2.1 System type

In the software, the "**System type**" merely changes the selection possibilities under "**Relays respond to**".

Note:

This selection possibility **cannot** be used to change the unit type!

2.2.2.2 Interface

Data exchange between the PC program and the radio receiver takes place via the COM port adjusted at "**Interface**".

2.2.2.3 Data

Press "**Receive**" to see the unit type and the current configuration of the receiver. The status bar also shows the software version of the receiver.



Press "**Transmit**" to send the visible configuration to the receiver.

2.2.2.4 Relays respond to

This selection possibility is used to stipulate the functions to which the additional relay responds. The texts of the individual selection boxes change depending on the system type.

Those selection boxes without text explanation correspond to unlabelled buttons on the radio hand-held unit.

These buttons can be given a (concealed) function here in the software.

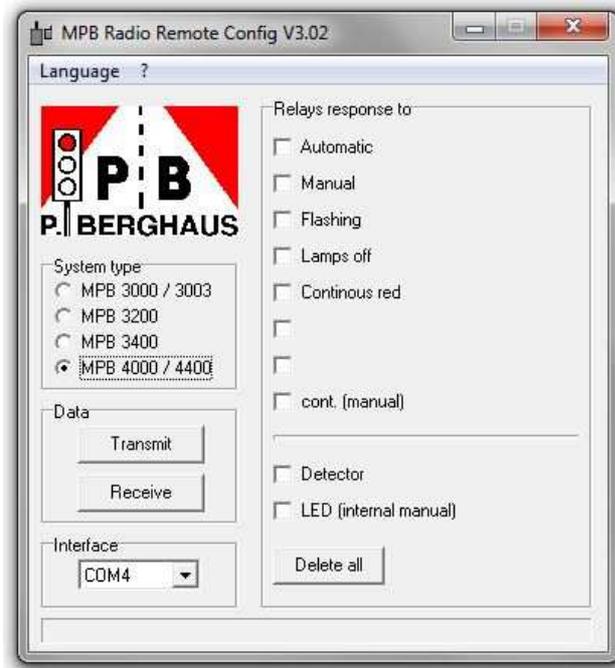


If the "**Detector**" box is ticked, the relay responds when the detector input is in use.

Note:

System types MPB 4000 / 4400 also have the selection box "**LED (internal manual)**".

If this function is selected, the relay responds when the function LED of the internal manual control lights up (front panel controller).



3. Hand-held transmitter

3.1 Hand-held transmitter MPB 3000 / 3003 / 3200

As soon as a function is selected on the radio hand-held unit, this function is given priority. The system always gives priority to the radio hand-held unit.
The internal knob in the traffic light is now deactivated.

3.1.1 With active LED feedback



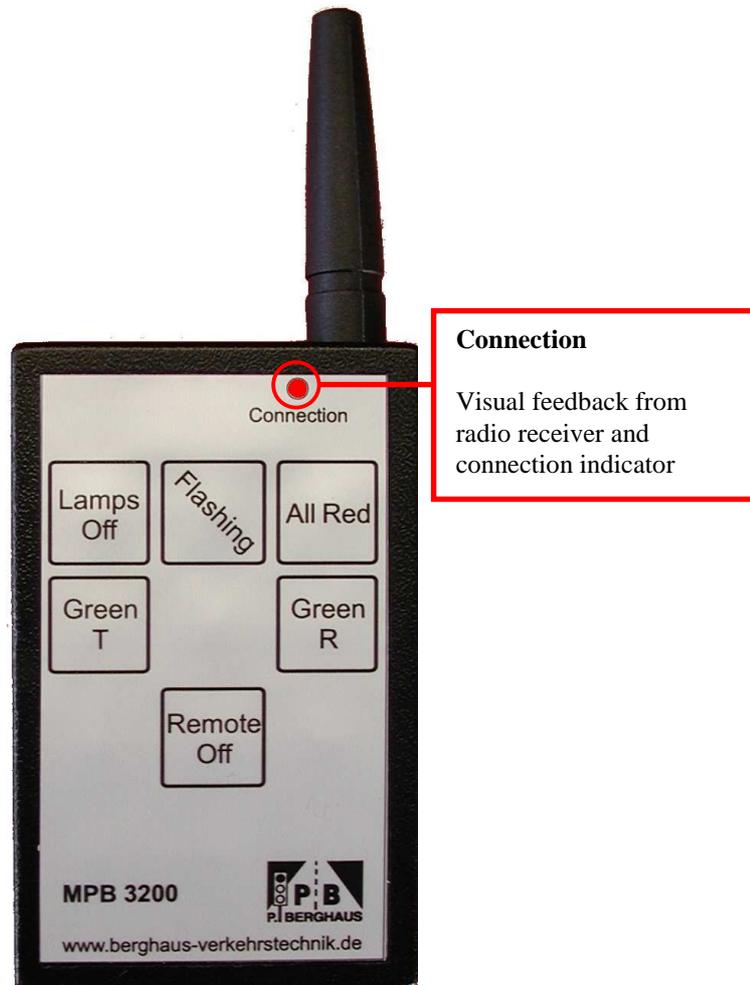
Pressing "**Remote Off**" activates the internal knob again and the system performs the functions adjusted at the knob.

Note:

- The hand-held transmitter gives an acoustic feedback when the radio receiver has received the selected function.
- The connection to the receiver is interrupted 30 seconds after pressing a button, and the LED goes off.
It is now also no longer possible to show any active feedback.

3.1.2 Without active LED feedback

After pressing a button, the connection indicator lights up briefly when the required function has been received by the radio receiver.



Note:

- The hand-held transmitter gives an acoustic feedback when the radio receiver has received the selected function.

3.2 Hand-held transmitter MPB 3400

As soon as a function is selected on the radio hand-held unit, this function is given priority. The system always gives priority to the radio hand-held unit.
The internal knob in the traffic light is now deactivated.

3.2.1 With active LED feedback



Pressing "**Remote Off**" activates the internal knob again and the system performs the functions adjusted at the knob.

Note:

- The hand-held transmitter gives an acoustic feedback when the radio receiver has received the selected function.
- The connection to the receiver is interrupted 30 seconds after pressing a button, and the LED goes off.
It is now also no longer possible to show any active feedback.

3.2.2 Without active LED feedback

After pressing a button, the connection indicator lights up briefly when the required function has been received by the radio receiver.



Note:

- The hand-held transmitter gives an acoustic feedback when the radio receiver has received the selected function.

3.3 Hand-held transmitter MPB 4000 / 4400 with active LED feedback

Caution:

To use the radio receiver, the "**Special modes**" knob in MPB 4000 / 4400 must be switched to "**External**". The knob must be switched to this setting before the functions selected on the radio hand-held transmitter can be carried out.

3.3.1 With active LED feedback



Note:

- The hand-held transmitter gives an acoustic feedback when the radio receiver has received the selected function.
- The connection to the receiver is interrupted 30 seconds after pressing a button, and the LED goes off. It is now also no longer possible to show any active feedback.

3.3.2 Without active LED feedback (old version)

After pressing a button, the connection indicator lights up briefly when the required function has been received by the radio receiver.



Note:

- The hand-held transmitter gives an acoustic feedback when the radio receiver has received the selected function.

4. Technical data

4.1 General

Transmission frequencies

MPB 3000 / 3003:	433.125 MHz
MPB 3200:	433.175 MHz
MPB 3400:	433.200 MHz
MPB 4000 / 4400:	433.100 MHz

Transmission power:	10 mW
Range:	approx. 300 to 400 m

4.2 Receiver

Article No.:

MPB 3000 / 3003:	EP2464
MPB 3200:	EP2464A
MPB 3400:	EP2464B
MPB 4000 / 4400:	EP2463

Power supply:	from the signal system
Operating voltage (U_n):	12 V DC
Power consumption at U_n :	< 100 mA (without additional output)

4.3 Additional output

Type:	Relay, potential-free changeover contact
Load rating:	230 V / 5 A
Configuration:	via a PC serial interface

4.4 Hand-held transmitter

Article No.:

MPB 3000 / 3003:	EP246A
MPB 3200:	EP246B
MPB 3400:	EP246C
MPB 4000 / 4400:	EP2462

Power supply:	9V block battery
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